

Junior Formal March 29th at Hotel Sherman

"The best is none to good for us." So runs an old Greek proverb, and so seems to be the byword of the Junior social committee in their preparation for the Junior Formal, to be held Friday evening, March 29 in the Bal Tabarin of the Hotel Sherman.

Smooth Combination

With the selection of the room, music, entertainment, and food the committee has attempted to select a combination pleasing to both eyes, ears, feet, and appetite. The Bal Tabarin, with its spectacular lighting arrangements and roomy, rectangular dance floor is impressive by its beauty and space. Although the room itself is to be the center of attraction, four comfortable lounges await those who desire some informal relaxation.

Versatile Band

Playing in their own distinctive style that resembles a careful mixture of Sammy Kaye, Kay Kyser, and Glenn Miller, Kenny Leighton's band assures a delightful evening of both dancing and entertainment. The orchestra features three male vocalists, a trio named the "Beachcombers," and a glee club.

Coupled with the "You're Datin' with Leighton" organization to furnish continuous music for the evening up 'till midnight is Jack Ivett and the Four Esquires. A quartet composed of a vibra-harp, string bass, guitar, and accordion, the Four

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Armour Men Plan Midwest Power Show

Under the able direction of Professor Stanton E. Winston, the Midwest Power Conference, sponsored by Armour Institute of Technology, promises to be one of the most important engineering events of the year. The conference will be held at the Palmer House, Chicago, on April 9th and 10th. All persons interested in any phase of power engineering ranging from the purely technical applications to its economical and social aspects are cordially invited to attend the sessions and discussion groups. There will be included something of interest to every type of engineer.

Excellent Cooperation

Seven other midwestern universities are cooperating with Armour Institute of Technology as well as the regional branches of all the national engineering societies. The University of Illinois, State University of Iowa, University of Michigan, Iowa State College, University of Wisconsin, Purdue University, and Michigan State College will have faculty representatives who will preside over the various sessions of the Power Conference which include power-processes, small power-plants, power fallacies, electrical transmission, hydro-power, and fuel problems of power plants.

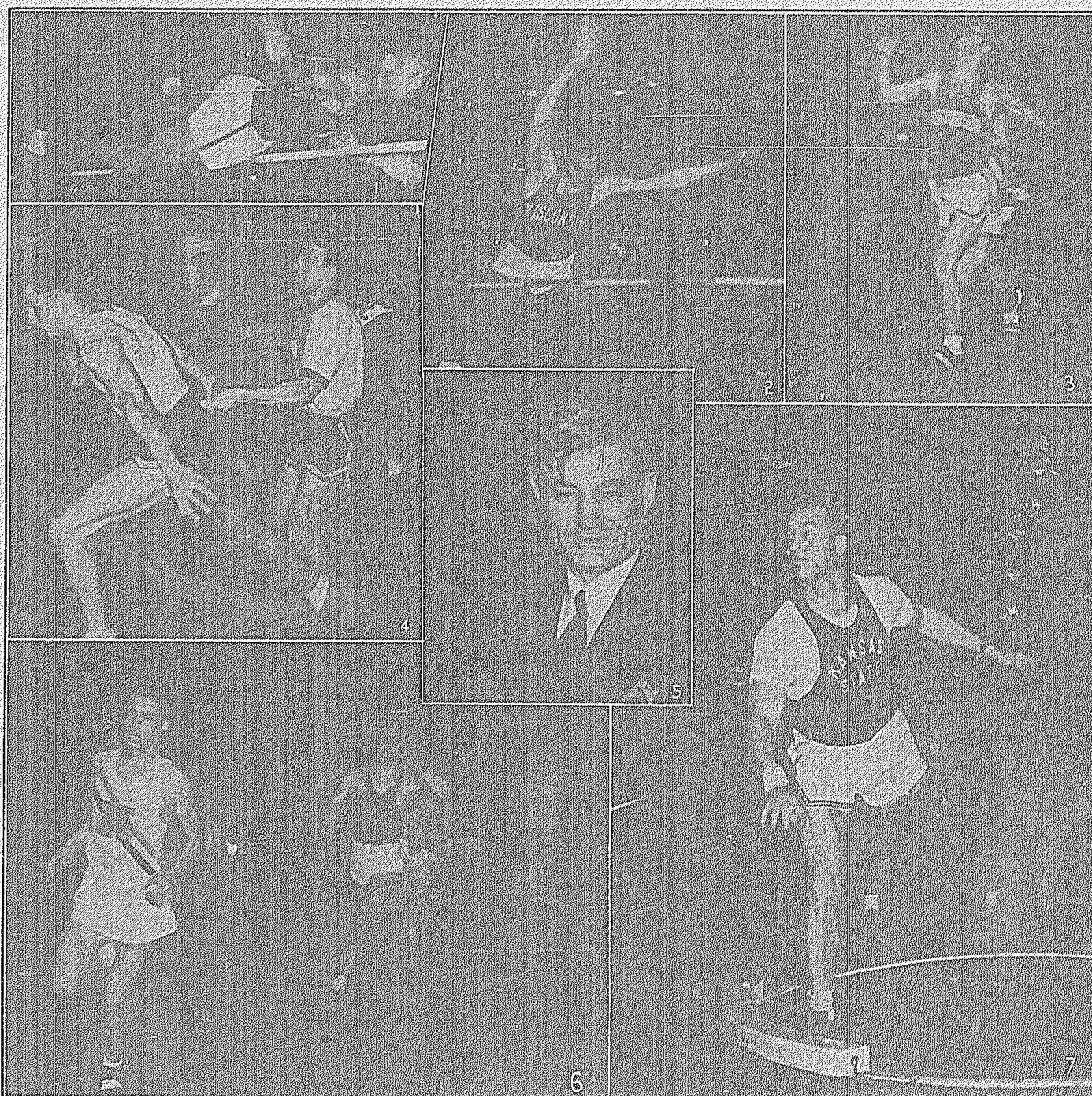
Pamphlets Distributed

Fifteen-thousand program pamphlets have been distributed throughout the power industry and publicity given in all trade publications. The attendance is expected to exceed that at any of the previous conferences.

Besides Professor Winston, the conference director, and Prof. Nash, its secretary, Armour will be represented by L. E. Grinter, vice-president of the Institute, and Professor J. C. Peobles who will preside over the session on "Fuel Problems of Power Plants."

After registration, the opening meeting will be presided over by L. E. Grinter, Dean of the Armour Graduate Division. Following this, a talk will be given on "Power Fallacies" by Philip W. Swain, the editor of "Power." "The Combustion Gas Turbine, a Novel Prime Mover" will be the subject of the talk by Paul

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(Photos by Raymond)

PICTORIAL HIGHLIGHTS OF THE TECH RELAYS—(1) Smith of NU clears 6'; (2) Wisconsin's Williams over at 13'9"; (3) Baum of Wisconsin finishes the 880; (4) North Central changes batons; (5) The master mind of the Relays; (6) Start of the college mile; (7) Hackney throws one 48'.

Armour Host to Annual A.S.M.E. Meet Apr. 15, 16

On Monday and Tuesday, April 15 and 16, Armour Institute will play host to the Eighth Annual Students' Conference of the American Society of Mechanical Engineers. Represented at the conference, which is to be held at the Stevens hotel, will be six universities of the middlewestern states, namely Minnesota, Michigan, Wisconsin, Illinois, Indiana and Iowa. Approximately 400 members of the A.S.M.E. will be present. Prof. Daniel Roesch, Honorary Chairman, will preside, and will be assisted by R. W. Scott, student Pres., and John Catlin, Student Secretary, both undergraduates at Armour.

Monday, April 15

9:00 A.M.—Inspection Trip. Courtesy International Harvester Co. (Selected)
Noon—Luncheon
2:00 P.M.—Opening Session. South Ballroom
Parent Society Welcome
Ernest Hartford, Assistant Secretary, A.S.M.E.
Chicago Section Welcome, L. M. Ellison
2:30 P.M.—Technical Session. South Ballroom.
Papers by student representatives from eight colleges.
6:30 P.M.—Annual Banquet. North Ballroom
Address—E. F. Weber, Supt. Automotive Power, Burlington Lines

Tuesday, April 16

8:00 A.M.—Breakfast, Honorary Chairmen. Annual Conference
9:00 A.M.—Technical Session. South Ballroom. Papers by student representatives from eight colleges
12:15 Noon Luncheon—North Ballroom.
Report of Judges
Award of Prizes
2:00 P.M.—Inspection Trips. Selected. Diversified.

A.T.S.A. Concludes Plans for Banquet of Fathers, Sons

At the recent ATSA board meeting held last Thursday afternoon, the menu for the Father and Son Banquet was decided. The banquet, an annual affair and a complete sell-out last year, is to be held on Saturday evening at 6:30, April 13. As was the case last year, the Student Union will be the scene of the *pater et filius* activity.

Menu Appealing

The menu has as its main course broiled fillet mignon, baked potato, and peas. The dinner will start off with a cocktail, then a broth will follow, then the main dish, and a generous portion of strawberry short cake will be brought out as the peak of a fine dinner. It can not be doubted that this meal will appeal to both the taste and empty spots of father and son. Tickets for the banquet are expected to go on sale soon, with the price of one dollar if purchased before the banquet and a dollar and a quarter per person if purchased at the door. These tickets will be handled through Jack Clark, Dick Larson, Clay Dement, Fred DeMoney, Roman Mankus, and Rocco Stefano.

Many Awards

In the other business of the afternoon session, the awards for wrestling and boxing were voted. The letter winners in these sports are as follows: Wrestling, Majors—Balsewick, captain Hanna, Harrison, Kazmierowicz, Nigrelli, Till, Wasilenko, and Wolniak; Minors—Butkus, Cole, Hurwitz, Rosenberg, Siew, and Wagner; Dement, manager's award; Boxing, Minor—Colant, captain, Collins, DeGiorgi, Ericson, Kruse, Norkus, Peterman, and Rehwalt. This concluded the business of the board.

The March, 1940, issue of the **ENGINEER AND ALUMNUS** will be distributed today. Evening division students may obtain their copies of the **ENGINEER** in the First Floor Foyer of the Student Union from 5:30 P.M. to 8:30 P.M.

Open Summer Institute for Grad Students

When Armour Institute opens its doors June 17 for the first term of the 1940 Summer Graduate Institute, it will be inaugurating the most distinguished school of this type in the country. The summer graduate courses will constitute one of the most ambitious and outstanding accomplishments in the history of Armour. Far exceeding anything previously attempted, the courses offered, rather than specializing in one branch of engineering as is customary in most schools, will cover all fields of engineering and will make the Institute the center of summer graduate work in the United States. Despite the fact that all of the graduate students at this school are expected to participate, they will constitute only about one-fourth of the total enrollment, the remaining three-quarters are to be made up of outside students.

Beginning of Program

It is pointed out that the school this summer is the beginning of an extensive graduate program and is not merely a temporary affair. It will be the policy of the Institute to invite scientists of great distinction to lecture each summer on modern developments in engineering and science. For the coming term the staff will consist of graduate teachers from Armour and sixteen visiting professors from such widely separated schools as Yale and Stanford Universities and men of industry from companies such as General Electric and Western Electric. One of the visitors of the graduate division will be C. C. Furnas of Yale, who, though recognized as an outstanding chemical engineer, is especially noted for the many articles he has written. Many of them appear periodically in the *Saturday Evening Post*. Other visitors will include Barnett F. Dodge, of the chemical engineering department at Yale, Ralph M. Barnes of Iowa State University, who will teach a special course dealing with time and

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Michigan Normal, Marquette Keep College, University Relay Crowns

Registrar's Office Releases Averages of School Groups

As in the past few years the Registrar's office has released the individual and collective grades of the school with the average of the entire student body 1.44. As usual the seniors led the school with the junior, sophomore and freshman classes following in that order. Numerically the grades are as follows:

Senior Class	1.63
Junior Class	1.46
Sophomore Class	1.33
Freshman Class	1.18

Cameras Leads Seniors

In the senior class, the leading ten students are:

Marvin Camras	2.97
John Catlin	2.86
Sidney Heenan	2.82
Henry Newman	2.81
Alvin Winkler	2.78
Francis Opila	2.77
Ralph Wagner	2.76
Thomas Hunter	2.75
John Gerhardt	2.74
Carl Pierson	2.71

Leading the Junior class, are the following:

Leo Stoolman	2.80
Robert Harmon	2.78
Leonhard Holmboe	2.71
James Brown	2.70
Roy Jacobsen	2.70
Lionel Naum	2.68
Robert Mead	2.66
Bernard Rasof	2.65
Edwin Hass	2.62
Henry Dryer	2.61

Perfect Average

Robert J. Sullivan led the Sophomore class with an average of 2.95, while Roy F. Elke and Robert J. Mahashek shared Freshman honors with a perfect average of 3.00.

Department averages, Freshmen not included, are as follows:

Architecture	1.33
Chemical Engineering	1.39
Civil Engineering	1.44
Electrical Engineering	1.52
Fire Protection Engineering	1.79
Mechanical Engineering	1.40
Science	1.25

The following groups are arranged according to the seniority of their establishment at the Institute.

Honorary Fraternities

Tau Beta Pi	2.68
Pi Tau Sigma	2.51

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Dr. Frank W. Hurd Joins Foundation in Fuel Research

Dr. Frank W. Hurd has been appointed to the chemical engineering division of the Research Foundation. A graduate of Drake university and Iowa State college, he received his doctorate at the University of Minnesota while acting as a teaching assistant in their chemistry department from 1935 to 1937. Among other achievements, he has his bachelor's degree in mathematics and chemical engineering, and a doctor's degree in physical chemistry.

Dr. Hurd who at the present is a resident of Minneapolis, Minn., has been active in research, his work including oil and water miscibility under ultraviolet light; preparation of ceric hydroxide sols; preparation of colloidal iron for use in magnetic ink; measurement of oxidation-reduction potentials of bacterial suspensions; the influence of sulfanilamide; the study of the diffusion processes of red corpuscles, using artificial radioactive bromine. Before coming to the Research Foundation, he was engaged in photochemical research with Dr. R. S. Livingston; he has done research work in the radiology department of the university hospital at Minneapolis. At the Research Foundation he will work in the field of special fuel development problems.

Chuck Fenske broke all existing records in the three-quarter mile last Saturday night at the twelfth running of the Armour Tech Relays at the University of Chicago to be first man ever to run that distance under three minutes. The University of Wisconsin graduate student clipped 3.7 seconds off the world's indoor mark of 3 minutes 3.4 seconds established for that distance by Lloyd Hahn in 1925.

Two Other Records Broken

Two other records were broken and one record was tied as Michigan Normal of Ypsilante paced the college division to retain the college trophy for the second time in two years.

Although there were no trophies awarded for team performance in the university division, Marquette by unofficial count was high scorer with 56 points.

The evening's activities had barely started when Michigan Normal's crack relay team won the college two mile relay in the meet record breaking time of 8:05.3. Normal's well-balanced team of Ralph Gildenstein, Bob Lee, Russell High, and Sterling Paris lowered by one and two-tenths seconds, the mark set by Normal in last year's meet. Later on in the evening Michigan Normal's team of Ronald Clark, Ralph Gildenstein, Russell High, and Lewis Kagen won the college one mile relay event for another first.

In winning the team trophy the Michigan thinclads scored most of their points on the four firsts and three seconds they captured. Not to be outdone by the record-breaking relay his teammates had run, Charles Hlad of Michigan Normal proceeded to take both college hurdle events. In the 70 yard high hurdles, Hlad bent out Walter Revel of Kansas Teachers, while his teammate, Sterling Paris, was placing third. Hlad and Paris again gathered points for Michigan in the low hurdles by taking first and fifth places respectively, Hlad missing the meet record by a tenth of a second.

Shelton Beaten In Dash

All attention was turned to the university 70 yard dash, as returning record holder Walter Shelton, colored sprint star from Marquette University, lined up with a field of brilliant dash men, including Gene Littler of Nebraska University, Maynard Black, a teammate, and John Davenport of Chicago. A final lunge prevented a dead heat as Littler beat out Shelton, tying the meet record of 7.1 seconds.

In the university hurdle events, both defending first place winners

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Nottage Gives Talk on Water Drop Behavior

Thursday afternoon at four o'clock, Mr. Nottage, of the mechanical engineering department, presented a paper entitled "Dynamic and Thermal Behavior of Water Drops in Evaporative Cooling Processes" at the Heat and Thermodynamics Colloquium which met in the Student Union under the chairmanship of Dr. Max Jacob. This paper is a report of the progress of research in evaporative cooling which has been, and continues to be, conducted at the University of California under the sponsorship of the American Society of Heat and Ventilating Engineers, the Air Conditioning Society of San Francisco, California Industry, and the University itself. Mr. Nottage previously presented this paper at the 46th annual meeting of the American Society of Heat and Ventilating Engineers, which was held in Cleveland, Ohio, from January 22 to 26 this year.

The paper, which was prepared jointly by Professor L. M. K. Boelter, of the University of California, and

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